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The Discovery NM630 Acquisition System is a premium, all-purpose, dual detector, free-geometry nuclear imaging system, featuring advanced, all-digital Elite NXT detector technology, a slim gantry, cantilevered patient table, and acquisition station. Elite NXT slim detectors are designed for general-purpose nuclear imaging with excellent image quality originating from two highly stable, slim, large rectangular field-of-view digital detectors, featuring five corrections performed on each detected event in real time, even at high count rates. The key features include:

- o 3/8" (9.5 mm) NaI crystal thickness
- o 59 high quantum efficiency circular PMTs,
- each coupled with one analog to digital converter
- o Extra Large Rectangular UFOV with no cut-off corners: 21.25" x 15.75" (54 x 40 cm)

- o Energy range: 40 - 620 keV
- o Contoured detector housing for optimal cardiac and brain SPECT imaging

Discovery NM630 features a wide 70 cm bore and slim gantry with free-geometry, enabling cardiac SPECT (90 degrees), general SPECT (180 degrees), whole body and planar imaging in various geometries to facilitate imaging a wide patient population. The gantry includes several features designed for maximum clinical versatility and operational flexibility:

- o Externally mounted detectors for ease of positioning in all major clinical studies, including those for stretcher, standing and seated patients
- o Upright and horizontal detector orientations
- o Rapid gantry orientation transitions between procedures
- o Real-time, infrared-based Automatic Body Contouring (ABC) for enhanced scanning efficiency and resolution in 90 & 180 SPECT,

and whole body scanning procedures

- o User-definable pre-programmed home positions

for the gantry orientation and patient table

- o Gantry display unit with real-time status display and an intuitive, icon-based 20-function handset accessible from either side of the gantry
- o Fast, semi-automatic dual collimator exchange

The Discovery NM630 utilizes an ergonomic dual axis patient table, with a cantilevered telescoping design to be used for planar, whole body and SPECT applications. The low-attenuation carbon fiber table top supports a maximum patient weight of 227 kg (500 lb.) and has a maximum scan range of 200 cm (79").

A minimum table height of 53.5 cm (21") facilitates patient loading and unloading from a wheelchair or stretcher.

Other key features include:

- o Automated positioning via protocol

selection

- o Manual emergency patient egress
- o Included patient bed mattress with straps
- o Easy swivel of table away from gantry around pivot point at rear of table to enable collimator changes and facilitate imaging of patients who are seated or on hospital bed/stretchers
- o Optional integrated EKG trigger
- o Optional table accessories including a head holder, table extender, arm support, leg support and additional table pads/straps

The Discovery NM630 acquisition station is based on a Linux operating system with user interface similar to the Xeleris. The station interface enables exam scheduling, protocol editing, scan acquisition, QC acquisition along with routing analysis, and networking.

Acquisition Station Hardware:

- o High performance Intel based HP Z400 computer
- o Intel Xeon Quad Core Processor
- o 4 GB RAM (2 x 2 GB)
- o 500 GB hard drive

- o Flat panel display operating at 1280 x 1024 in true color
- Operation is via an interactive, graphical, common GE user interface with the following features:
 - o Simultaneous acquisition and energy spectrum histogram (PHA) display with up to 64 independent windows for maximal scanning versatility with multiple isotope(s).
 - o Acquisition termination by preset time, preset count or manual stop and the ability to resume paused acquisitions for whole body, SPECT, and gated SPECT
 - o Pre-defined or user-configurable protocols for rapid recall and setup
 - o Ignite accelerated workflow technology to streamline the workflow as described below
 - o Universal imaging system connectivity via DICOM 3.0 (per DICOM conformance statement) and Interfile 3.3 TCP/IP based protocols
 - o HIS/RIS integrated workflow including DICOM Modality Work List

- o Ability to connect to broadband/high speed network. This virtual private network (VPN) connection to GE is a single point of access using 3DES encryption for faster data transfer. Data acquisitions may be performed using single or multiple isotopes in any of the following imaging modes: Static, Dynamic, Multi-Gated, Whole Body Scanning, SPECT and Gated SPECT. The Ignite technology can make most clinical scans as easy as 1, 2, 3:
 - o (1) Select the patient from the work list on the camera
 - o (2) Position the patient and press Start (Ignite the process)
 - o (3) Review the results that will be automatically displayed without the need for further interaction.

2 1

NM 600 LEHR Collimators with Cart
NM 600 Low Energy High Resolution Collimators
Includes:

- o Two LEHR Collimators
- o Collimators Mounted on a Dedicated

		Collimator Cart
3	1	<p>NM 600 High Energy General Purpose Collimators</p> <p>Includes:</p> <ul style="list-style-type: none"> - Two HEGP Collimators <p>Collimators Mounted on a Dedicated Collimator Cart</p>
4	1	<p>A set of 1 pinhole collimator with 3 inserts</p> <p>with collimator cart for NM 600</p>
5	1	<p>The Bilateral Pinhole Motion enhancement option enables NM600 Series cameras to perform pinhole collimated imaging of both sides of a patient on the imaging table without moving the patient in procedures such as imaging of bilateral hips anteriorly or bilateral kidneys posteriorly.</p>
6	1	<p>bar phantom for spatial resolution and linearity tests of gamma cameras. The phantom consists of four quadrants with different bar specification:</p> <p>For each of the quadrant, bar spacing is 2.5mm, 3.2mm, 3.5mm & 4.0mm.</p>
7	1	<p>An L-shaped metal plate attachable to the wall with an opening for a syringe in order to acquire point source-based flood acquisition at a few meters distance from vertically</p>

		positioned detector for QA purposes.
8	1	<p>Quality Control Flood Source Holder Kit A large plate mounted at a small distance above the NM detector on which the flood source is positioned in order to perform acquisition of flood studies for QA/QC purposes.</p>
9	1	<p>Center of rotation source holder for Quality assurance , easily attached to Infinia or Ventri table.</p>
10	1	<p>NM 600 Series Patient Pallet Extender The patient pallet extender for NM 600 Series products can be used to extend the table top for multi-FOV SPECT, SPECT/CT and whole body studies.</p> <p>Length is 600mm; Width is 391mm; 300mm extension</p> <p>Note - The use of the extender requires more space between the camera and the back wall of the scan room. Consult with GE Healthcare project manager for minimum room size requirements.</p>
11	1	<p>NM 600 Touch Ruler An interactive touch-sensitive device mounted at one side of the patient table, used to define nuclear imaging scan range (start and stop points), saving the need to enter these values manually from the</p>

		operator console
12	1	Long table pad and straps
13	1	A DVD player which functions with the boom mounted gantry display unit in order to provide video display during the scan for patient entertainment purposes.
14	1	NM600 DETECTORS DISMOUNT An option enabling transportation and mobilization of the NM600 series gantry separated from the detectors for easier load in elevators or easier access through restricted paths such as narrow hallways or doorways
15	1	NORAV ECG GATING FOR D630 A compact ECG gating device for Discovery 630 gated cardiac studies , embedded in the Patient table in order to simplify operation.
16	1	Patient Arm Support for NM, PET/CT, MR Padded Arm Rest combines total arm support and passive restraint, increasing patient comfort during extended procedures. Designed to accommodate virtually all patients. Compatible with most Nuclear Imaging systems and can also be used in MRI, CT and PET applications. Constructed with a comfortable, full support polyfoam with a seamless coated finish. Warranty Code: H
17	1	Patient Leg Rest for Nuclear, PET/CT, MRI

Contoured Leg Rest prevents low back stress and pain that occurs during supine imaging and treatment, measures 7 in. H x 17 in. D x 13 in. W. Designed to accommodate virtually all patients. Compatible with most Nuclear Imaging systems and can also be used in MRI, CT and PET applications. Constructed with a comfortable, full support polyfoam with a seamless coated finish. Warranty Code: H

18 1

6 KVA UPS for Nuclear Medicine

FEATURES/BENEFITS

- The use of uninterruptible power enables the system imaging to be completed after the loss of supply power, and allows for saving of valuable data and orderly system shutdown
- The Online Double Conversion UPS eliminates all power anomalies such as noise, transients, overvoltage and undervoltage, which could damage the imaging system's sensitive computer components
- Improves imaging system reliability, reduces service costs, and increases system uptime
- Cell Saver Technology provides conditioned power even during severe brownout conditions without depleting battery resources

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- System monitoring via: LanSafe III / FailSafe III software, (2) RS-232 Ports
 - PowerPass Module further enhances reliability through Maintenance Bypass Switch which performs maintenance or upgrade your UPS without powering down your critical systems

SPECIFICATIONS

- Dimensions (H x W x D): 33.6" x 9.9" x 15.8"
- Weight: 218 lbs.
- Input Voltage: 200 - 240 VAC
- Output Voltage: 120/240, 120/208 VAC
- Frequency: 45-65 Hz

COMPATIBILITY

- Maxxus NM

NOTES:

- Customer is responsible for rigging and arranging for installation with a certified electrician
- ITEM IS NON-RETURNABLE AND NON-REFUNDABLE

19	1	Main disconnect panel for GE 630 NM system and GE Brivo NM615
20	1	2 Days NM TiP Onsite Training Two Day NM Onsite Training provided from 8AM to 5PM, Monday through Friday. Includes T&L expenses. Days

		<p>provided consecutively.</p> <p>This training program must be scheduled and completed within 12 months after the date of product delivery.</p>
21	1	<p>3 Days NM TiP Onsite Training</p> <p>Three Days NM Onsite Training provided from 8AM to 5PM, Monday through Friday. Includes T&L expenses. Days provided consecutively.</p> <p>This training program must be scheduled and completed within 12 months after the date of product delivery.</p>
22	1	<p>Standard Level 2 service package delivered for the warranty period</p>
23	1	<p>Xeleris* 4.0 SPECT functional imaging workstation is a</p> <p>Nuclear Medicine, PET, NM/CT, and PET/CT</p> <p>processing, analysis, and review system.</p> <p>Designed with productivity in mind, it can</p> <p>accelerate workflow and provides a powerful</p> <p>clinical diagnostic tool to the medical imaging</p> <p>community.</p> <p>Combining streamlined workflow with a</p> <p>comprehensive clinical library and</p>

extensive
networking capabilities on a
functional imaging
workstation, Xeleris 4.0 is at the
nucleus of
productivity in the clinical imaging
department.
Utilizing the GE Healthcare-wide
graphical user
interface, Xeleris 4.0 is the
processing and
review platform of the Discovery*
and
Brivo* NM and series, Infinia*,
Vetri, and all
other SPECT cameras in
GE Healthcare's current offering.
Xeleris 4.0
provides the automated processing
and
connectivity necessary in today's
demanding
environment.
Xeleris 4.0 SPECT includes Motion
detection & correction software.

24 1

Cedars Sinai Cardiac Packages
(option)
A comprehensive set of nuclear
cardiology
protocols for advanced cardiac
analysis,
including:
o Cedars Sinai Quantitative Perfusion
SPECT

(option)

o Automatic 3-Dimensional software approach to

quantitative Perfusion SPECT.

o Cedars Sinai Quantitative Gated SPECT

(option)

o An application calculating the ejection

fraction of the left ventricle and a 3D surface display is generated.

o Cedars Sinai Companion (option)

o Optional module for QGS and QPS applications

features

- 17 segment scores and templates in QPS

- Diastolic filling parameters in QGS

- Eccentricity ratio in QGS

Philips Brightview trade in